Amendments to the Claims

The following listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

1. (currently amended) A cell preparation for tissue regeneration comprising

   a) a first component comprising an extracellular matrix or matrix material containing fibrinogen~~, wherein the extracellular matrix material is selected from the group consisting of collagens, alginate, alginate beads, agarose, fibrin, fibrin glue, blood plasma, fibrin beads, laminins, proteoglycans, fibronectins, chitosan, and heparin~~; and

   b) a second component comprising from about 1 x 10^3 cells/μl to about 50 x 10^3 cells/μl and thrombin ~~to the wound site~~, wherein the cells comprise one or more keratinocytes and fibroblasts that secrete one or more biologically active molecules selected from the group consisting of GM-CSF, VEGF, KGF, bFGF, TGFβ, angiopoietin, EGF, IL-Iβ, IL-6, IL-8, TGFα, and TNFα, ~~and~~

   wherein the one or more keratinocytes and fibroblasts are ~~allogeneic and mitotically active or inactivated~~ mitotically inactivated allogeneic cells.

2. (original) The cell preparation of claim 1, wherein the one or more keratinocytes and fibroblasts are differentiated fibroblasts and keratinocytes.

3. (original) The cell preparation of claim 1, wherein the cell preparation is in the form of a paste.

4. (original) The cell preparation of claim 1, wherein the cell preparation is in the form of a spray.

5. (original) The cell preparation of claim 1, wherein the one or more keratinocytes and fibroblasts are mitotically inactivated by administration of mitomycin C or other chemically-based mitotic inhibitors, irradiation with γ-Rays, irradiation with X-Rays, or irradiation with UV light.

6. (original) The cell preparation of claim 1, wherein the one or more keratinocytes and fibroblasts are immortalized using at least one gene/polypeptide selected from the group consisting of the 12S and 13S products of the adenovirus E1A genes, hTERT, SV40 small T antigen, SV40 large T antigen, papilloma viruses E6 and E7, the Epstein-Barr Virus (EBV), Epstein-Barr nuclear antigen-2 (EBNA2), human T-cell leukemia virus-1 (HTLV-1), HTLV-1 tax, Herpesvirus saimiri (HVS), mutant p53, myc, c-jun, c-ras, c-Ha-ras, h-ras, v-src, c-fgr, myb, c-myc, 5 n-myc, and Mdm2.

7. (currently amended) The cell preparation of claim 1, wherein the one or more keratinocytes and fibroblasts naturally secrets the one or more biologically active molecules.

Claims 8-10 (cancelled)

11. (currently amended) The cell preparation of claim 1, wherein ~~the first component comprises fibrinogen~~ the extracellular matrix or matrix material further comprises a collagen, alginate, alginate beads, agarose, fibrin, fibrin glue, blood plasma, fibrin beads, laminin, proteoglycan, fibronectin, chitosan, or heparin.

12. (currently amended) The cell preparation of claim 1, wherein the second component ~~optionally~~ further comprises a cryoprotectant.

13. (currently amended) The cell preparation of claim 12, wherein the cryoprotectant is selected from the group consisting of a 10% by volume of a glycerol solution, a 15% by volume of a glycerol solution, and a 15% glycerol and 5% human serum albumin by volume of a solution.

14. (original) The cell preparation of claim 13, wherein the cryoprotectant is glycerol.

15. (original) A kit comprising, in one or more containers, the cell preparation of claim 1.

16. (original) The kit of claim 15, wherein the first component and the second component are cryopreserved prior to shipping and subsequently thawed prior to use.

17. (original) The kit of claim 16, wherein the first and second components are each contained in a separate vial having a removable screw cap, wherein the vial is sterile and

is made of a material resistant to low temperatures and wherein the removable lid can be replaced with a spray pump following thawing of the first and second components prior to use.

18. (original) The kit of claim 17, wherein the spray pump delivers a volume of approximately 130 µl per spray.

19. (original) The kit of claim 17, wherein the material resistant to low temperatures is selected from the group consisting of glass, polypropylene, polyethylene, and ethylene vinyl acetate (EVA).

20. (original) The kit of claim 17, wherein the vials are sealed within a pouch or container prior to cryopreservation, wherein the pouch or container is fabricated of a material capable of withstanding temperatures ranging from -80°C to -196°C and wherein the pouch or container protects the first and second components from contamination during cryopreservation and subsequent thawing.

21. (currently amended) The kit of claim 20, wherein the pouch or container is waterproof ~~and has a high barrier performance~~.

22. (original) A method of using the kit of claim 15, the method comprising a) administering the first component to a wound site on a patient in need of treatment; and b) combining the second component with the first component wherein the combination of the first component and the second component forms a cell preparation suitable for tissue regeneration.

23. (original) The method of claim 22, wherein the cell preparation is in the form of a paste.

24. (original) The method of claim 22, wherein the cell preparation is in the form of a spray.

25. (original) The method of claim 22, wherein the second component optionally further comprises a cryoprotectant.

26. (currently amended) The method of claim 25, wherein the cryoprotectant is selected from the group consisting of a 10% by volume of a glycerol solution, a 15% by volume

of a glycerol solution, and a 15% glycerol and 5% human serum albumin by volume of a solution.

27. (original) The method of claim 22, wherein the first and second components are topically administered to the wound site on the patient.

28. (original) The method of claim 22, wherein the first and second components are sprayed onto the wound site on the patient.

29. (original) The method of claim 28, wherein the first and second components are combined on the wound site.

30. (original) The method of claim 28, wherein the first and second components are combined before reaching the wound site.

31. (original) A method of administering cell preparation of claim 1 to a wound site on a patient in need of treatment, the method comprising a) providing the first component; b) providing the second component; c) combining the first and second components to form the cell preparation; and d) administering the cell preparation to the wound site.

32. (currently amended) The method of claim 31, wherein the first and second components are topically applied to the wound site.

33. (original) The method of claim 31, wherein the first component is applied to the wound site before the second component is applied to the wound site.

34. (original) The method of claim 31, wherein the second component is applied to the wound site before the first component is applied to the wound site.

35. (original) The method of claim 31, wherein the cell preparation is in the form of a paste.

36. (original) The method of claim 31, wherein the cell preparation is in the form of a spray.

37. (original) The method of claim 31, wherein the second component optionally further comprises a cryoprotectant.

38. (currently amended) The method of claim 37, wherein the cryoprotectant is selected from the group consisting of a 10% by volume of a glycerol solution, a 15% by volume of a glycerol solution, and a 15% glycerol and 5% human serum albumin by volume of a solution.

39. (original) The method of claim 31, wherein the first and second components are sprayed on the wound site.

40. (original) The method of claim 39, wherein the first component is sprayed on the wound site before the second component is sprayed on the wound site.

41. (original) The method of claim 39, wherein the sprayed first and second components are combined on the wound site.

42. (original) The method of claim 39, wherein the sprayed first and second components are combined before reaching the wound site.